



Procedure<sup>1,3,4</sup>:

1. Move in and rig up I&S Workover rig (MIRU)
2. Run in hole (RIH) with cement bond log (CBL) and log 4.5" casing (CSG) to determine actual top of cement (TOC) (2,950' est)
3. RIH with tubing (TBG) to plug back total depth (5,169' est) and pump 164' bentonite mud slurry (9.31 cu-ft, 0.66 sx)
4. Pull out of hole (POOH) to 5,065' and pump 100' cement plug (8.95 cu-ft, 7.58 sxs)
5. POOH to 4,900' and wait on cement (WOC<sup>6</sup>)
6. RIH to 4,965' and tag cement plug and confirm pressure isolation<sup>5</sup>
7. POOH with TBG
8. RIH and cut and pull 4.5" CSG from CBL confirmed TOC +50' (2,900' est)
9. POOH with cut 4.5" CSG
10. RIH with TBG to 2,950' and pump 100' stub plug (15.69 cu-ft, 13.30 sxs)
11. POOH to 2,800' and WOC<sup>6</sup>
12. RIH to 2,850' and tag cement plug and confirm pressure isolation<sup>5</sup>
13. POOH with TBG
14. MIRU wireline CBL and run log on 7" CSG string to confirm TOC (300' est)
15. See stimulation plan<sup>2,3</sup>
16. RIH with TBG to 2,400' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
17. POOH to 2,200' and WOC<sup>6</sup>
18. RIH to 2,300' and tag cement plug and confirm pressure isolation<sup>5</sup>
19. See stimulation plan<sup>2,3</sup>
20. RIH with TBG to 2,280' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
21. POOH to 2,080' and WOC<sup>6</sup>
22. RIH to 2,180' and tag cement plug and confirm pressure isolation<sup>5</sup>
23. See stimulation plan<sup>2,3</sup>
24. RIH with TBG to 2,090' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
25. POOH to 1,890' and WOC<sup>6</sup>
26. RIH to 1,990' and tag cement plug and confirm pressure isolation<sup>5</sup>
27. See stimulation plan<sup>2,3</sup>
28. RIH with TBG to 1,840' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
29. POOH to 1,640' and WOC<sup>6</sup>
30. RIH to 1,740' and tag cement plug and confirm pressure isolation<sup>5</sup>
31. See stimulation plan<sup>2,3</sup>
32. RIH with TBG to 1,550' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
33. POOH to 1,350' and WOC<sup>6</sup>
34. RIH to 1,450' and tag cement plug and confirm pressure isolation<sup>5</sup>



35. See stimulation plan<sup>2,3</sup>
36. RIH with TBG to 1,350' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
37. POOH to 1,150' and WOC<sup>6</sup>
38. RIH to 1,250' and tag cement plug and confirm pressure isolation<sup>5</sup>
39. See stimulation plan<sup>2,3</sup>
40. RIH with TBG to 1,100' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
41. POOH to 900' and WOC<sup>6</sup>
42. RIH to 1,000' and tag cement plug and confirm pressure isolation<sup>5</sup>
43. Initiate final P&A permitting with NYSDEC and P&A well per guidance
44. RIH with TBG to 639' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
45. POOH to 500' and WOC<sup>6</sup>
46. RIH to 539' and tag cement plug and confirm pressure isolation<sup>5</sup>
47. POOH with TBG to 350' and pump 100' cement plug (22.73 cu-ft, 19.26 sxs)
48. POOH to 200' and WOC<sup>6</sup>
49. RIH to 250' and tag cement plug and confirm pressure isolation<sup>5</sup>
50. POOH with TBG to 50' and pump 50' cement plug (11.37 cu-ft, 9.63 sxs)
51. POOH and WOC<sup>6</sup>
52. Tag cement plug and confirm pressure isolation<sup>5</sup>
53. RDMO all services and restore location

<sup>1</sup>Plug Back Plan procedure only, does not address lens initiation or inflation

<sup>2</sup>Stimulation Plan to address test interval milling ops, pumping plans and analysis criteria, and bentonite spacers

<sup>3</sup>Although not anticipated, tests 2-7 included to exhaust all possible outcomes

<sup>4</sup>All testing depths are representative and may be adjusted as new information becomes available. Depth adjustments will be validated by phone conversation with Regional Mineral Resources Supervisor.

<sup>5</sup>Presence of pressure requires CIBP set above interval capped with 50' of cement and bentonite mud fill from top of cement plug to base of next cement plug

<sup>6</sup>2 hr wait time on cement